

Lab organizes 2 national contests

College students meet vehicle challenges

University students from across the nation recently competed for top honors in two events organized by Argonne for the U.S. Department of Energy, and advanced the cutting edge of automotive technology in the process.

Wayne State University defeated 13 other college and university teams to win the 1998 Ethanol Vehicle Challenge, a multi-event contest organized by Argonne.

University of Waterloo finished second and the University of Illinois at Chicago was third.

Organized by Argonne and sponsored by General Motors Corporation, the U.S. Department of Energy, and Natural Resources Canada, the event challenges students to convert a gasoline-burning family sedan to run solely on E85, a blend of 85 percent denatured ethanol and 15 percent gasoline-like hydrocarbon primer.

Fourteen schools from 10 U.S. states and one Canadian province each received a 1997 Malibu sedan powered by a 3.1-liter V6 engine. Student teams replaced and upgraded major engine and fuel system components for ethanol operation. As they worked on their vehicles, the students solved real-life engineering problems and made complex decisions by applying creative, innovative thinking.

The challenge ran from May 25 through June 1. After five days of

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testing at the General Motors Proving Grounds in Milford, Mich., the Ethanol Vehicle Challenge teams embarked on a two-day, 600-mile caravan that ended with a ceremony at DOE Headquarters in Washington, D.C.

Along the way, the cars stopped at events in Ohio and Maryland to promote the use of alternative-fuel vehicles and awaken public interest in this developing technology. At journey's end, the teams joined the Clean Cities Conference parade through downtown Washington, participated in the opening reception for the conference, and exhibited their vehicles both at the conference and on Capitol Hill.

Vehicles were tested and scored on exhaust emissions, fuel economy, acceleration, driveability, handling, range, and cold- and hot-starting performance. Teams also received points for a written design report and an oral technical design presentation. Winners received cash awards, and the two best oral reports were presented at the Clean Cities Conference.

FutureCar

The University of Wisconsin-

Madison and Virginia Tech tied for first place in the FutureCar Challenge that ran June 3-10 at the Chrysler Technology Center in Auburn Hills, Mich.

Technologies demonstrated included advanced propulsions systems, space-age materials and alternative fuels such as natural gas.

Argonne organizes and manages the FutureCar Challenge for the U.S. Department of Energy and the U.S. Council for Automotive Research — a research venture of Chrysler Corp., Ford Motor Co. and General Motors Corp.

The underlying goal of this competition and similar ones that Argonne organizes for DOE is to help develop automotive engineers of the future. Through the competitions, students gain first-hand knowledge of what it takes to be an automotive engineer. Several "graduates" of the competitions have been hired by automobile companies or their suppliers. Over the past 10 years, more than 1,500 students have participated in these advanced design competitions.

Frank Fradin to be interim lab director

Frank Y. Fradin, Associate Laboratory Director for Physical Research, will serve as Argonne's interim director, effective July 1.



Fradin

A search process will begin in early July to identify a permanent director.

The search committee will be made up of representatives from Argonne, its board of governors and the University of Chicago.

ANL-W picnic set for July 18

The 47th annual Argonne-West employee picnic will be held at Heise Hot Springs Saturday, July 18, from 10 a.m. to 2 p.m.

Lunch will be served from 11 a.m. to 1 p.m. and includes roast beef, roast pork and Horvath dogs, baked potatoes, baked beans, corn on the cob, green salad and a dinner roll. There will be skewered hot dogs for the children. Argonne-West managers will serve ice cream sundaes.

Robbie Flores (RPS) will provide music and other entertainment. For the children, there will be pony rides, an inflatable castle, sack races, three-legged races, fishing, piñatas and a circus tent. For the adults there will be golf (tee times will be from 9 a.m. to 11 a.m.), volleyball and horseshoe tournaments.

Volunteers are needed to help at the picnic. Contact Jeff Shelton (ED), picnic chairman, at ext. 3-7877.

News deadline to change due to lab holiday

Due to the upcoming laboratory holiday, news items, seminar listings and classified ads for the July 6 issue must be received by noon on Monday, June 29.

Those who normally receive *Argonne News* on Friday will receive the next issue on Thursday, July 2.

The Argonne News World Wide Web site (<http://www.anl.gov/news.html>) will be updated by mid-afternoon on Thursday, July 2.

'Green' solvent process gets presidential honor

Argonne's new process for producing a strong yet non-toxic and biodegradable solvent has won a 1998 Presidential Green Chemistry Challenge Award.

The national honor recognizes the new technology's potential to replace millions of pounds of toxic industrial solvents with an "environmentally friendly" substitute.

The Argonne technology, recently honored with a *Discover* magazine "environmental technology of the year" award, can reduce the cost of an environmentally benign solvent, ethyl lactate, far enough that it can compete in the marketplace against toxic solvents. Ethyl lactate is biodegradable and non-toxic.

Each year, the United States uses more than 3.8 million tons of toxic solvents, widely used as cleaners, degreasers and product ingredients in such industries as electronics manufacturing, adhesives, paints and other coatings, printing, de-inking and textile manufacturing.

They include such compounds as chloro-fluorocarbons, which

The presidential challenge was established to recognize technologies that benefit industry and prevent pollution.

damage the earth's ozone layer, and volatile organic compounds, some of the nation's most common ground-water pollutants.

According to industry estimates, solvents made with ethyl lactate can replace conventional solvents in more than 80 percent of these applications.

Argonne reduced the cost of producing ethyl lactate by improving separation and purification techniques in the fermentation-based process to manufacture it, said Jim Frank (ES). Vital to the process is a new, patented advanced membrane system which avoids the production of wastes and improves reaction efficiency.

Ethyl lactate normally sells for \$1.50 to \$2 per pound, compared to about 90 cents to about \$1.70 per pound for conventional chemical solvents. Argonne's new, corn-

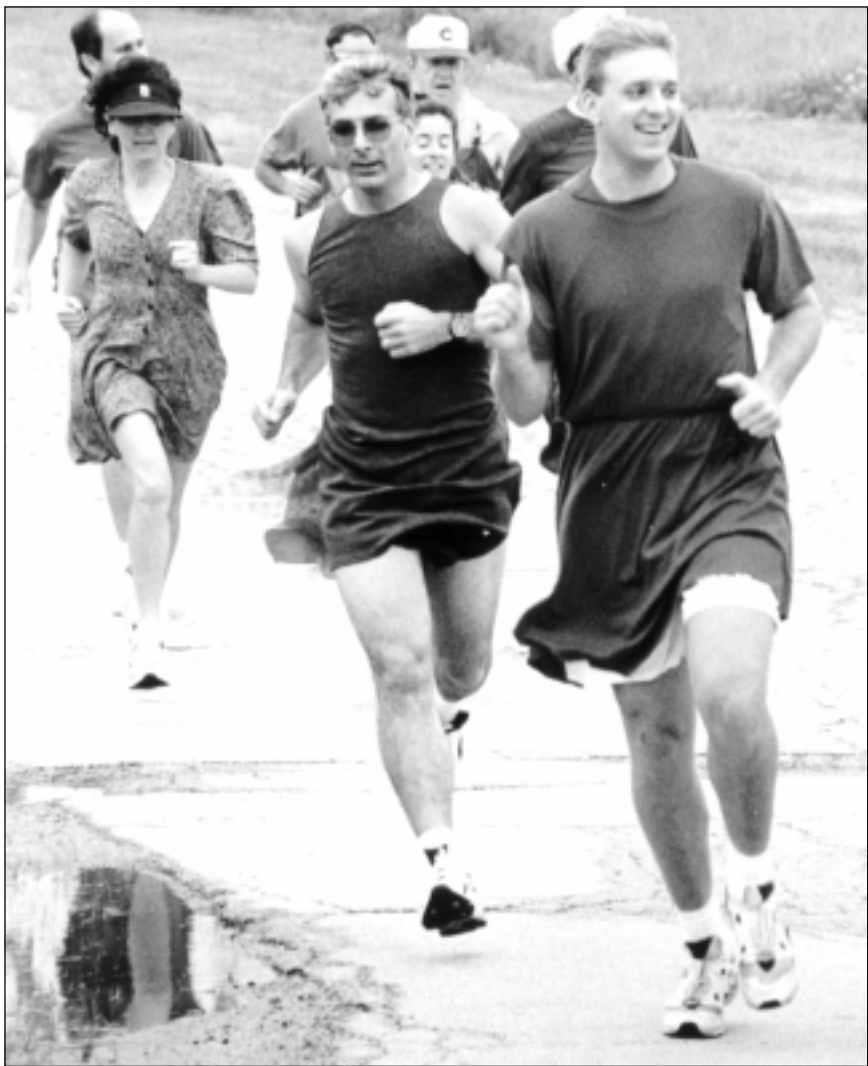
based process may cut the market price of ethyl lactate to well below \$1 per pound.

The Presidential Green Chemistry Challenge was established in 1995 to recognize and promote fundamental and innovative chemical technologies that encourage economic development and benefit industry by finding cost-effective ways to prevent pollution. It is administered by the U.S. Environmental Protection Agency and judged by experts from the American Chemical Society.

The 1998 Presidential Green Chemistry Challenge Awards will be presented at a ceremony June 29 in Washington, D.C.

Argonne's improved method for producing ethyl lactate was developed with funding from the Department of Energy's Office of Industrial Technologies.

Inside this issue of Argonne News ■ \$2 million grant to help develop superslick coating
■ Combined Appeal raffle has high-flying grand prize ■ Runners dress for success



Runners in red

Crimson-clad runners (above) hit the road during the Argonne Running Club's "Red Dress Run" on June 9. More than two dozen runners and walkers of both sexes donned red dresses for a three-mile fun run and two-mile walk. Those dressed in red were eligible for two special raffle prizes — \$35 gift certificates good at any Lettuce Entertain You restaurant. Below are Laurie Culbert (IPD-MED) and a nicely accessorized Rich Lee (ET). A color photo of the runners in all their scarlet finery is on the Argonne Running Club home page: <http://chemistry.anl.gov/ARC>.



Speakers Bureau

Richard Combs (ITD) — Joliet Kiwanis Club, "Research for Tomorrow," March 23.

Deon Ettinger (DEP) — Jefferson Junior High School, Naperville, Science Fair Judge, March 4.

Kenny Gross (RA) — Jefferson Junior High School, Naperville, Science Fair Judge, March 4.

Russ Huebner (APS) — Jefferson Junior High School, Naperville, Science Fair Judge,

March 4; Rotary Club, Crown Point, Indiana, "X-Ray Research at the Advanced Photon Source," May 6; Society of American Military Engineers, Chicago, "The Advanced Photon Source," May 20.

Jill Morgenthaler (ECT) — Hinsdale Men's Computer Club, "Computing at Argonne," April 17.

Conrad Naleway (CHM) — Thomas Jefferson Elementary School, Hoffman Estates, Career Day, March 25.

Superslick coating to receive \$2M for further development

An ultrahard, super-slick coating developed at Argonne will be the focus of a \$2 million research program designed to learn about the structure and properties of the material and how it can be used in automotive applications.

Contributing \$1,390,000 to the project are Front Edge Technology, Inc., Baldwin Park, Cal.; Stirling Thermal Motors, Inc., Ann Arbor, Mich.; and Diesel Technology Company, Wyoming, Mich. DOE will contribute \$750,000.

The industry partners hope to develop the near-frictionless carbon coating for products in the transportation, power generation, power transmission equipment, industrial tool and textile industries. The coating could be used on items like gears, bearings, rotating shafts, valves, blades, vanes, injectors, micro-drills and many other parts subjected to high wear. The partnership also aims at scaling up the process to produce commercial quantities.

The coating, discovered last year, has exceptional wear resistance and durability, said Argonne's Ali Erdemir (ET), who developed the material along with George Fenske (ET) and Osmon Eryilmaz, a visiting scientist from The Technical University of Istanbul, Turkey.

Its coefficient of friction is less than .001 when measured in a dry

nitrogen atmosphere — 20 times lower than the previous record holder, molybdenum disulfide.

For comparison, when tested under the same conditions, Teflon's coefficient of friction is around .04; steel has a coefficient of about 1.1.

The material is created in a radio-frequency chamber. Carbon, in the form of methane, is piped into the chamber where the radio waves turn it into plasma — a gaseous soup of atomic nuclei and electrons. Carbon nuclei drift down from the plasma onto a substrate, where they form the coating.

Compared to previous methods of producing carbon coatings, the new process is quick and can produce large amounts of the coating. The material adheres well to many kinds of substrates and is non-toxic.

Front Edge Technology is a leading manufacturer of hard carbide, nitride, and diamond-like carbon coatings for a wide range of industrial applications.

Stirling Thermal Motors has expertise in development of commercially viable Stirling engines that can offer extremely efficient operation with ultra-low emissions.

Diesel Technology is a major manufacturer of heavy-duty diesel engines and associated parts and components.

Retirees

Retirees for June include:

Robert A. Amber (TD-DES) retired March 20 with 11 years of service.

Lawrence W. Amiot (ECT-CTT) retired March 25 with 35 years of service.

Stella Blickhahn (PFS-BM) retired May 28 with 11 years of service.

Walter Goliszewski (ECT-CS) retired May 29 with 35 years of service.

Jacquelyn R. Habenicht (OPA) retired June 15 with 17 years of service.

Roger L. Habenicht (OCF-

SPM) retired June 15 with 33 years of service.

Jim L. Ketcher (TD) retired April 30 with 21 years of service.

Kimball R. Larsen (OD) retired June 5 with 20 years of service.

David Sommers (OD) retired April 30 with 26 years of service.

Susan L. Sommers (RPS) retired April 30 with 25 years of service.

Elise R. Wittkamp (OCF-PRO) retired May 15 with 11 years of service.

Benjamin Zeidman (PHY) retired June 30 with 40 years of service.

Argonne-West library receives additional 300 safety videos

Argonne-West's Library has received new videos through the National Resource Safety Center.

There are 300 new video titles in addition to those previously available. Videos include: "Stress in the Workplace," "Pesticide Procedures,"

"Night Driving Tactics," "Lyme Disease," "Lawn Mower Safety," "Heat Stress" and "Roadside Safety."

To order a video for a safety meeting, call the library at ext. 3-7237, or stop by to browse the catalogues.

Joliet Junior College plans early registration drive at ANL-E

Early registration for Joliet Junior College fall classes will be offered at the Argonne-East site on Friday, July 10, from noon to 4 p.m.

College representatives will be available to register students for fall classes at the Human Resources

offices in Building 201.

Employees must bring a completed Educational Assistance (ANL89) form to the registration. Call Betty Iwan (HR) at ext. 2-3410 for information on class schedules and educational assistance.



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Argonnet

The information source
<http://www.anl.gov/OPA/argonnet/>

Raffle’s big prize: tickets to any U.S. destination

Tickets for the Argonne Combined Appeal's (ACA) annual raffle will be on sale daily from 11:15 a.m. to 1:15 p.m. in Argonne-East’s Building 213 Cafeteria Monday, June 29, through Friday, July 10.

Tickets are 25 cents each or five for \$1. Tickets will also be available from ACA steering committee members and ACA coordinators at the Argonne-East employee picnic on Saturday, July 11.

This year’s grand prize is two round-trip United Airlines tickets to a continental U.S. destination. Other prizes include four box seat tickets for the Chicago White Sox vs. the Cleveland Indians on Saturday, July 18; brunch at Wolf’s Head Inn; brunch at Holiday Inn; a gift certificate from Sure Fire Auto Supply in Lemont, and various music CDs.

The drawing will be held at the picnic. Winners do not need to be present.

Other events on the ACA calendar this year are the second annual used book sale on Sept. 10 and 11 and the kickoff clothing drive on Oct. 5 and 6. Collection of books for the used book sale will begin in August. Details will appear in future issues of *Argonne News*.

For more information on the combined appeal see the ACA home page at <http://www.anl.gov/ACA/aca-home.html>.



Brown visits

Illinois Secretary of Transportation Kirk Brown makes a point as he addresses the Intelligent Transportation Society of the Midwest's Annual Meeting, held at Argonne-East’s Advanced Photon Source Auditorium June 16-17. The meeting featured discussions of intelligent vehicles, traveler information systems and overviews of Intelligent Transportation Systems projects in the Gary-Chicago-Milwaukee Corridor and the Midwest.

‘Nite Life’ to rock Argonne-East’s annual picnic

Argonne-East’s 51st annual employee picnic will be held Saturday, July 11, from 10 a.m. to 3 p.m. in Argonne Park.

Argonne, DOE and University of Chicago employees are invited to the annual get-together. Admission is free.

This year’s picnic will feature a bungee run, Ferris wheel, big slide,

“Red Baron” plane ride, moonwalk, pony ride and a petting zoo. There will be a golf-chipping contest, a pie walk and a coloring contest for children.

Other attractions will include carnival-style games, hay rides, bingo and “Nite Life,” a pop-rock band playing a variety of music.

Marriott Corp. will provide food

and beverages for purchase.

Volunteers wanted

The Argonne Club is seeking employees to help out at part or all of the picnic. All volunteers will receive a T-shirt.

For more information or to volunteer, call Sara Hahn (XFD) at ext. 2-5736 or send e-mail to hahn@aps.anl.gov.

Lab’s retirement vendors to visit Argonne-East

Argonne’s retirement vendors will have representatives at Argonne-East to meet individually with employees to answer questions about the retirement plans or retirement plan assets. To schedule a half-hour appointment, call the numbers below.

Vendor	Day	For Appointments, call:
Fidelity	Thursday, July 23 and Friday, July 24	Appointment Desk (800) 642-7131
TIAA-CREF	Thursday, July 16 and Friday, July 17	Appointment Desk (800)842-2005
Prudential	Wednesday, July 22	Cheryl (847) 619-3519

Seminars

Monday, June 29
High Energy Physics Division Theoretical Physics Seminar: **“Exactly Solvable Self-Dual Yang-Mills Theory and Applications to Perturbative QCD”** by Gordon Chalmers, SUNY, Stony Brook. 2 p.m., Bldg. 362, Conference Room E188.

Physics Division Seminar: **“Experimental Investigation of Structural Phenomena in N-Z A-60 Nuclei”** by Stuart Vincent, University of Surrey, Guildford, United Kingdom. 3:30 p.m., Bldg. 203, Conference Room R150.

Wednesday, July 1
Special Physics Division Seminar: **“Beta-decay Studies of Exotic Nuclei Produced by the Ion Guide Laser Ion Source (IGLIS) at the Leuven Isotope Separator on Line (LISOL)”** by Ils Reusen, University of Leuven, Belgium. 3:30 p.m., Bldg. 203, Conference Room R150.

Thursday, July 2
Energy Technology Division Seminar: **“Zeolite-Salt Systems”** by Nikolay Usachev, N.D. Zelinsky Institute of Organic Chemistry, Russian Academy of Sciences, Moscow, Russia. 10:30 a.m., Bldg. 212, Conference Room A157.

Special Physics Division Seminar: **“Ternary Fission Studies at LOHENGRIN”** by Ulli Koester, CERN, Geneva, Switzerland. 11 a.m., Bldg. 203, Conference Room R150.

Physics Division Theoretical Physics Seminar: **“Few-Body Aspects of the Structure of Light Nuclei”** by Ian J. Thompson, University of Surrey, United Kingdom. 3 p.m., Bldg. 203, Conference Room B221.

Thursday, July 16
Experimental Facilities Division Seminar: **“Non-Interferometric Phase Measurement”** by Keith Nugent, School of Physics, The University of Melbourne, Australia. 4 p.m. Bldg. 401, Conference Room A1100.

Monday, July 27
Materials Science Division Seminar: **“Proximity Effects and Interface Transparency in Superconductor/Ferromagnet Multilayers”** by Marjo Geers, Kamerlingh Onnes Laboratory, Leiden University, The Netherlands. 11 a.m., Bldg. 223, Conference Room S105.

Monday, August 10
High Energy Physics Division Theoretical Physics Seminar: **“Mass and Decay of the Lowest Glueball in QCD”** by Tao Huang, Institute of High Energy Physics, Beijing, P.R. China. 2 p.m., Bldg. 362, Conference Room E188.

Info Center to close for lab holiday

The Argonne Information Center will be closed on Friday, July 3, and Saturday, July 4, due to the laboratory holiday.

The center's regular hours are Tuesday through Saturday, 10 a.m. to 3 p.m.

Tours

Organizations and institutions visiting Argonne-East for tours and visits in May included:

May: Society of Industrial Hygiene Casualty Safety Engineers, Roseville High School, Elmwood High School, International Rotary Club, Berrien County Intermediate School District, Boone Grove High School, Guilford High School, Proviso West High School, Illinois Math & Science Academy, Taiwanese Delegation, Chicago Metropolitan Sci Tech Librarians, Joliet West High School, The Heritage Retirement Community, Illinois Society of Professional Engineers, Materials Management Workshop Participants, FEMA Region V Conference Participants, MCS Summer College Students, Chinese Delegation.



Classified Ads

MISCELLANEOUS

VANITY & TOILET — 42" x 21" x 30", 43" top w/3" splash boards, right hand, Kohler hexagon designer sink w/Moen faucet, beige, 6 months old, excellent condition. \$150 o.b.o. Toilet w/wood seat, beige, 6 months old, excellent condition. \$50 o.b.o. Bi-fold doors, solid wood, fits 36" x 80" opening. Best offer. Evie Fagan, (630)960-5563.

MOVING SALE — TV, VCR, futon, bookcases, tables, chairs, 2, AC window units, portable dishwasher. Bill Cummings, (773) 227-9398.

MISCELLANEOUS — Precious Moments, 9-piece nativity set, 1979 Dove mark, boxed. \$100 o.b.o. Grandmother clock, cherry finish, 6'. \$100. Jacquie Habenicht, (815) 834-1422.

TICKETS — 2, Indianapolis Brickyard 400 race tickets, Aug. 1, '98, turn 2, 2-night stay (Friday & Saturday night) at the Indianapolis Radisson Hotel. \$1,000 o.b.o. Martha Teitlus, (708) 233-2654.

COMPUTER ACCESSORIES — Kensington trackball turbo mouse for a Macintosh. \$20. SIIG high speed serial/parallel port card for IBM compatible. \$15. Jim Podraza, (708) 687-0607.

BOAT - 24' C&C sailboat, includes trailer, dinghy, and 2 motors, call for list of all equipment included. Lee Harris, (815) 723-5903.

MISCELLANEOUS — Smith-Corona, portable typewriter, top condition. New \$400 - Asking \$50. Floor to ceiling planter pole, w/hooks for plants, live plants included. \$5. 2, large table lamps, old but decent, need shades. Pink dresser lamp. \$3. Shower stool, almost new. \$5. Toast-master waffle iron. \$10. Paul Kurpis, (630)971-1322.

SPEAKERS — Pair, Cerwin-Vega, 3-way (woofer, mid, tweeter), w/reset, 16" x 16" x 26", w/speaker stands. E. Ann Moravek, (630) 257-2119.

PING PONG TABLE — Brand new, used once, 4 paddles. New \$160 - asking \$125. Rex Gerald, (708) 485-5970.

FLOWERS — Bags of hanging Impatiens flowers, pink & white, lavender & mix, three bag sale. \$5/each. Jill Jonkouski, (773) 586-1664.

HYDRAULIC FLOOR JACK — Sears, 2 ton, hydraulic floor jack w/storage case, excellent condition. \$50. Tom Rabas, (630) 971-8834.

GARAGE SALE — Huge cul-de-sac garage sale, June 25-27, 9 a.m. - 3 p.m., New Lenox, Cedar Rd to Harem Ave, turn left to Gear, follow Gear to Joliet Hwy., follow signs to Grumman Court. Denise Voss, (815) 485-4991.

CYLINDER HEADS — Rebuilt cylinder heads from 1979 Dodge, 318 cu. in., V8, never used, still sealed in bags. \$50. Ron Kmak, (708) 301-1269.

TIRES & RIMS — Off a '96 Toyota Camry, 28K miles on tires, good condition, 205 60 R 15. \$250. Edgar Garza, (773) 737-6365.

LAP TOP — Aces, 586, 28 meg RAM, 500 meg hard drive, excellent condition, 28.5 modem. \$500. Edgar Garza, (773) 737-6365.

SOFA BED — 78" long, floral pattern, used little, clean. \$100. Albert Fischer, (708) 246-4389.

Classified ad request forms are available in stockrooms, at the Office of Public Affairs in Building 201, and at Argonne-West's Building 752, Room D109. The old half-sheet forms are acceptable, but note that the deadline is incorrect. Deadline for classified ads is **5 p.m. Monday.**

Requests can be submitted by fax to ext. 2-5274, or by inter-office mail to Evie Fagan, Building 201, Room 2U-09 (OPA-201). A drop-off box is located at the *Argonne News* office, Building 201, room 2Q-02 and at 2U-09.

Request forms must be signed and must include a home phone number. Ads cannot be accepted by phone or electronic mail. Please limit ads to 25 words; longer ads may be edited. Housing listed for sale or rent is available without regard to race, creed, color or national origin.

Argonne-West employees are welcome to submit classified ads to *Argonne News*. Request forms are available at the office of Argonne-West Correspondent Dolores Lagerquist, Building 752, Room D109. When completed, fax the request form to the *Argonne News* office at (630) 252-5274.

MISCELLANEOUS — Concrete block or cinder block, 6" nominal, clean, no mortar, approximately 100. .40 cents/each. Cliff Pitts, (708) 430-9104.

BEANIE BABIES — Hippy the Rabbit (15), Gracie the Swan (15), Quakers the Duck (15), Stripes the Tiger (15) Blizzard the Tiger (15). Jill Jonkouski, (773) 586-1664.

DOLL HOUSE — 'Barbie,' large doll house & furniture. \$75. Eileen Graff, (773) 233-0599.

MOVING SALE — June 26 & 27, 8 a.m. - 4 p.m., 913 Summit Drive, Lockport. Jacquie Habenicht, (815) 834-1422.

MISCELLANEOUS — Craftsman orbital buffer polisher, used twice. New \$60 - asking \$35. Sony, 30 watt AM/FM in dash C.D. car stereo. \$125. Car stereo speakers, various sizes & prices, call for details. Kevin Cleary, (708) 388-1587.

BOAT — 20', Sea Ray boat & trailer, closed bow, 350 Chevy, nice shape, runs well. \$2,750 o.b.o. Mike Bosek, (815) 838-5638.

FURNITURE — 5-piece bedroom set, cream lacquer finish w/queen size box spring & mattress, excellent condition. \$1,000. Refrigerator, used, works well. \$100. James Gotchie, (630) 553-9505.

FURNITURE — Barcalounger, swivel recliner-rocker, ribbed beige Herculon fabric, fair to good condition. \$25. Ira Charak, (708) 246-6424.

RADAR DETECTOR — RD-306, 3 band radar detector w/LD-200 laser detector, covers X, K, & Ka bands. \$140. Carol Przyzycki, (630) 257-1324.

BEANIE BABIES — Bunny trio (Hippy, Hoppity & Floppity). \$10/each. Mary Popper, (312) 504-0678.

LAWN MOWER — Craftsman, 22", 5.5 HP, oversize rear wheel lawn mower, 1 year old. New \$200 - asking \$100. Allen Pancner, (630) 850-9192.

AUTOMOBILES

1991 MITSUBISHI — Mirage, 4-door sedan, white, AT, AC, PS, cassette, 100K miles, many new parts, very good condition. \$3,750 o.b.o. Minmin Yu, (708) 352-2507.

1996 BLAZER — Black w/tan bottom, fully loaded, 56K miles, one owner, new tires, excellent condition. \$16,900. Rich Trzuppek, (630) 968-5445.

1994 FORD — Mustang, convertible, metallic green, saddle top/interior, AT, power everything, fully loaded, CD, cassette, AM/FM, 66K miles, very good condition. \$11,500 o.b.o. Diana Gierich, (815) 467-6113.

1991 TOYOTA — Corolla LE, 4-door, PW, PDL, AT, AC, cruise, sunroof, ice blue, 73K miles. \$6,500. Ed Przyzycki, (630) 257-1324.

1986 OLDSMOBILE — Cutlass Brougham, AT, dark brown, 4 door, recent tune-up, new brakes, runs excellent. \$800. Mary Hammond, (815) 722-0264 - after 6 p.m.

1983 CHEVROLET — Celebrity, 87K miles, runs well, average condition. \$1,500 o.b.o. Jill Jonkouski, (773) 586-1664.

1988 TOYOTA — Corolla, 4-door, 4 cyl., AC, AM/FM, 140K miles, runs well, new muffler, new battery. \$1,100 o.b.o. Lisha Li, (708) 484-7841.

1990 BUICK — Century, 82K miles, good condition, 4-door, AC, cruise control, PW, PDL, grey. \$3,500. Kay Winner, (815) 254-4250.

1993 CHEVROLET - S-10 Blazer, 4x4, Tahoe package, 6 cy, 4.3L, AT, PS, PB, PM, PW, PDL, AC, cruise control, tilt steering, AM/FM cassette, velour/cloth seats, new tires, brakes and battery. \$11,500. Mark Jilek, (815) 436-0152.

1986 MERCURY — Grand Marquis, station wagon, 132K miles. \$1,100 o.b.o. Hank Dowgwillo, (630) 469-2426.

1993 NISSAN — Altima, 4-door, light beige, power everything, CD player, new brakes, excellent running condition, 94K miles (mostly highway). \$5,500. Ginny Dow, (815) 725-5353.

1987 CHRYSLER — New Yorker, 4-door, luxury sedan, midnight blue, fully loaded, excellent body & running condition, 69K miles. \$4,000 o.b.o. Dennis Tussing, (630) 969-3231.

1991 TOYOTA — Camry LE, 4-door, PS, PB, PW, PDL, 4 cyl., original owner, 68K miles, grey exterior/interior, needs new radio, runs great. \$7,500. Kevin Atto, (630) 416-7871.

1987 FORD — Conversion van, hi-top 302 V8, excellent condition, loaded, 75K miles, 4 captain chairs, folding rear seat into bed, color TV, CB radio, excellent tires, brakes & exhaust system. \$4,300 o.b.o. Dale Mohr, (630) 305-7265.

1991 MAZDA — MX6-DX. \$2,500. Wighard Jaeger, (630) 910-1890.

1990 GEO STORM — AM/FM cassette, sun roof, manual, 89K miles. \$2,000 negotiable. Gian Franco Preosti, (847) 537-4119.

1980 CADILLAC — Coupe DeVille, V8, 137K miles, power everything, sunroof, excellent condition. \$2,500. Nick Carbaugh, (708) 301-0929.

1991 BUICK — Regal GS, good condition, 104K miles. \$4,000 o.b.o. or trade for smaller car. Benno Naderer, (630) 963-5758.

HOUSING

ROOM/RENT — Large furnished room, private entrance & bath, light cooking, all utilities included, close to lab. \$400/month. Carma Lee Jensen, (630) 964-9080.

HOUSE/SALE — Naperville, ranch, 3 bedrooms, 1 bath, 2-car garage, 14 years old, brick front, CA, nice landscape, great neighborhood, 203 school district. \$142,000. Hual-Te Chien, (630) 357-7834.

HOUSE/SALE — Downers Grove, 5 miles from lab., w/in-law quarters, one building, rented, close to everything. \$149,000. Benno Naderer, (630) 963-5758.

WANTED

COMPUTER — Mac or newer generation PC, good condition. Price negotiable. Mark Oglesby, (815) 439-6988.

HOUSEMATE — Housemate wanted for 3-bedroom house, close to ANL, Downers Grove, quiet with large yard. \$340/month. Ed Cates, (630) 964-3067.

RIDE SHARING — Visiting scholar, ETD, staying at Maple Lake Apartment, Woodridge, time flexible, willing to share gas, needs ride for 6 months. Krishna Gopakumar Warriar, (630) 252-5097

AIR CONDITIONER — Window unit air conditioner, 220 volts, over 12,000 BTUs. Edgar Garza, (773) 737-6365.

WATCH — Rolex Submariner, one or two tones. Edgar Garza, (773) 737-6365.

LOST

PIN — Gold owl stick pin, lost in Bldg. 201 or Cafeteria parking lot. Evie Fagan, (630) 960-5563.

TO BE GIVEN AWAY

TIRES — 4, Yokohama 221 tires, P185/60 R14 (82H), plenty of tread left. Dave Raske, (630) 690-9637.

Deadlines

News items, seminar listings and classified ads must be received at the Argonne News office by 5 p.m. Monday for the issue of the following Monday.

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